

2022/05

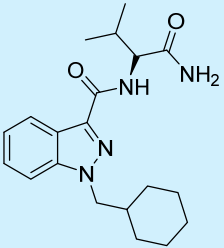
» SYNTHETIC CANNABINOIDS

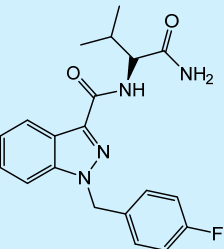
Synthetic cannabinoids are cannabinoid receptor agonists showing CB1 and CB2 binding affinities, resulting in producing cannabis-like effects.

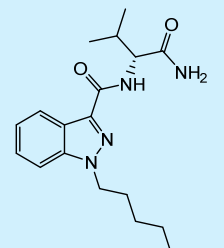
These compounds have become very popular as «legal high» smoking mixtures, among which the brand name «Spice» is the most well-known. Due to the fast expanding «Spice»-phenomenon, control measures have been implemented in many countries to make «Spice» compounds illegal.

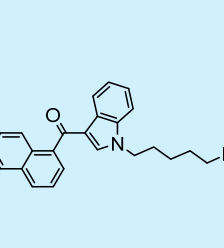
Nevertheless, the huge number of potentially psychoactive synthetic cannabinoids (for ex. JWH-, CP-, HU-, WIN-, RCS-, AM-compounds) presents an ongoing challenge for the forensic and toxicological identification.

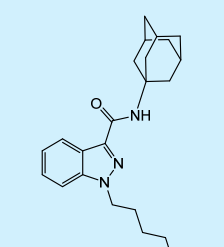
LIPOMED currently supplies a first range of synthetic cannabinoids and metabolites available as ready-to-use calibrated solution and/or as standard pack sizes of 10 mg, 50 mg and 100 mg. For more information, please check our website www.lipomed-usa.com.

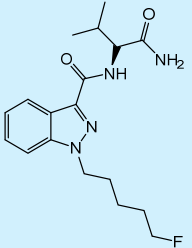
AB-CHMINACA				
	Molecular Formula	$C_{20}H_{28}N_4O_2$	CAS Number	1185887-21-1
	Molecular Weight	356.47	DEA Number	7031 CI
	AB-1741-0.1LA	0.1 mg/1 ml	calibrated solution in acetonitrile	
	AB-1741-1LA	1.0 mg/1 ml	calibrated solution in acetonitrile	
	AB-1741-10	10 mg	powder	
	AB-1741-50	50 mg	powder	
AB-1741-100	100 mg	powder		

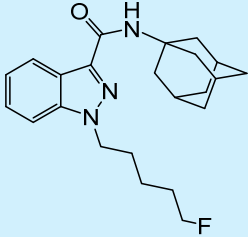
AB-FUBINACA				
	Molecular Formula	$C_{20}H_{21}FN_4O_2$	CAS Number	1185282-01-2
	Molecular Weight	368.41	DEA Number	7012 CI
	FUB-1621-0.1LM	0.1 mg/1 ml	calibrated solution in methanol	
	FUB-1621-1LM	1.0 mg/1 ml	calibrated solution in methanol	
	FUB-1621-10	10 mg	powder	
	FUB-1621-50	50 mg	powder	
FUB-1621-100	100 mg	powder		

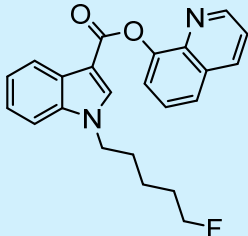
AB-PINACA				
	Molecular Formula	$C_{18}H_{26}N_4O_2$	CAS Number	1445752-09-9
	Molecular Weight	330.43	DEA Number	7023 CI
	ABP-1624-0.1LM	0.1 mg/1 ml	calibrated solution in methanol	
	ABP-1624-1LM	1.0 mg/1 ml	calibrated solution in methanol	
	ABP-1624-10	10 mg	powder	
	ABP-1624-50	50 mg	powder	
ABP-1624-100	100 mg	powder		

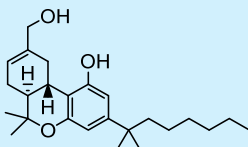
AM-2201				
	Molecular Formula	$C_{24}H_{22}FNO$	CAS Number	335161-24-5
	Molecular Weight	359.44	DEA Number	7201 CI
	JWH-1503-0.1LM	0.1 mg/1 ml	calibrated solution in methanol	
	JWH-1503-1LM	1.0 mg/1 ml	calibrated solution in methanol	
	JWH-1503-10	10 mg	powder	
	JWH-1503-50	50 mg	powder	
JWH-1503-100	100 mg	powder		

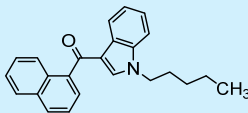
APINACA				
	Synonym(s):	AKB-48	CAS Number	1345973-53-6
	Molecular Formula	$C_{23}H_{31}N_3O$	DEA Number	7048 CI
	Molecular Weight	365.52		
	AKB-1631-0.1LM	0.1 mg/1 ml	calibrated solution in methanol	
	AKB-1631-1LM	1.0 mg/1 ml	calibrated solution in methanol	
	AKB-1631-10	10 mg	powder	
AKB-1631-50	50 mg	powder		
AKB-1631-100	100 mg	powder		

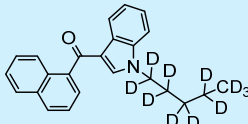
5F-AB-PINACA				
	Molecular Formula	$C_{18}H_{25}FN_4O_2$	CAS Number	1800101-60-3
	Molecular Weight	348.42	DEA Number	7025 CI
	ABF-1620-0.1LM	0.1 mg/1 ml	calibrated solution in methanol	
	ABF-1620-1LM	1.0 mg/1 ml	calibrated solution in methanol	
	ABF-1620-10	10 mg	powder	
	ABF-1620-50	50 mg	powder	
ABF-1620-100	100 mg	powder		

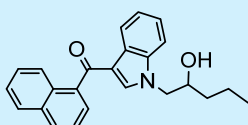
5F-APINACA				
	Synonym(s): 5F-AKB-48		CAS Number	1400742-13-3
	Molecular Formula	$C_{23}H_{30}FN_3O$	DEA Number	7049 CI
	Molecular Weight	383.51		
	AKB-1910-0.1LM	0.1 mg/1 ml	calibrated solution in methanol	
	AKB-1910-1LM	1.0 mg/1 ml	calibrated solution in methanol	
	AKB-1910-10	10 mg	powder	
AKB-1910-50	50 mg	powder		
AKB-1910-100	100 mg	powder		

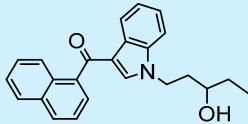
5F-PB-22				
	Synonym(s): 5-Fluoro-PB-22, 5F-QUPIC		CAS Number	1400742-41-7
	Molecular Formula	$C_{23}H_{21}FN_2O_2$	DEA Number	7225 CI
	Molecular Weight	376.43		
	PBF-1623-0.1LA	0.1 mg/1 ml	calibrated solution in acetonitrile	
	PBF-1623-1LA	1.0 mg/1 ml	calibrated solution in acetonitrile	
	PBF-1623-10	10 mg	powder	
PBF-1623-50	50 mg	powder		
PBF-1623-100	100 mg	powder		

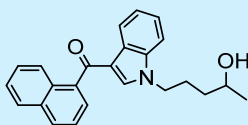
HU-210				
	Molecular Formula	$C_{25}H_{38}O_2$	CAS Number	112830-95-2
	Molecular Weight	386.58	DEA Number	7370 CI
	HU-1617-0.1LM	0.1 mg/1 ml	calibrated solution in methanol	
	HU-1617-1LM	1.0 mg/1 ml	calibrated solution in methanol	

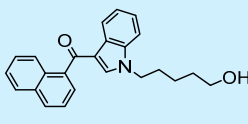
JWH-018				
	Synonym(s): Naphthalen-1-yl-(1-pentylindol-3-yl)methanone		CAS Number	209414-07-3
	Molecular Formula	$C_{24}H_{23}NO$	DEA Number	7118 CI
	Molecular Weight	341.45		
	JWH-1294-0.1LM	0.1 mg/1 ml	calibrated solution in methanol	
	JWH-1294-1LM	1.0 mg/1 ml	calibrated solution in methanol	
	JWH-1294-10	10 mg	powder	
JWH-1294-50	50 mg	powder		
JWH-1294-100	100 mg	powder		

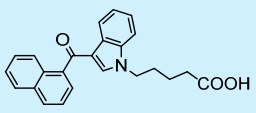
JWH-018-D₁₁				
	Molecular Formula	C ₂₄ H ₁₂ D ₁₁ NO	CAS Number	7118 CI
	Molecular Weight	352.51	DEA Number	
	JWH-1328-0.1LM	0.1 mg/1 ml	calibrated solution in methanol	
	JWH-1328-1LM	1.0 mg/1 ml	calibrated solution in methanol	
	JWH-1328-10	10 mg	powder	
	JWH-1328-50	50 mg	powder	
JWH-1328-100	100 mg	powder		

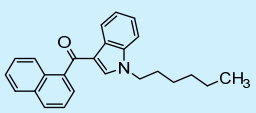
JWH-018 N-(2-hydroxypentyl) metabolite				
	Molecular Formula	C ₂₄ H ₂₃ NO ₂	CAS Number	
	Molecular Weight	357.45	DEA Number	
	JWH-1411-0.1LM	0.1 mg/1 ml	calibrated solution in methanol	
	JWH-1411-1LM	1.0 mg/1 ml	calibrated solution in methanol	
	JWH-1411-10	10 mg	powder	
	JWH-1411-50	50 mg	powder	
JWH-1411-100	100 mg	powder		

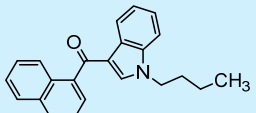
JWH-018 N-(3-hydroxypentyl) metabolite				
	Molecular Formula	C ₂₄ H ₂₃ NO ₂	CAS Number	
	Molecular Weight	357.45	DEA Number	
	JWH-1419-0.1LM	0.1 mg/1 ml	calibrated solution in methanol	
	JWH-1419-1LM	1.0 mg/1 ml	calibrated solution in methanol	
	JWH-1419-10	10 mg	powder	
	JWH-1419-50	50 mg	powder	
JWH-1419-100	100 mg	powder		

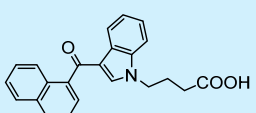
JWH-018 N-(4-hydroxypentyl) metabolite				
	Molecular Formula	C ₂₄ H ₂₃ NO ₂	CAS Number	1320363-47-0
	Molecular Weight	357.45	DEA Number	
	JWH-1426-0.1LM	0.1 mg/1 ml	calibrated solution in methanol	
	JWH-1426-1LM	1.0 mg/1 ml	calibrated solution in methanol	
	JWH-1426-10	10 mg	powder	
	JWH-1426-50	50 mg	powder	
JWH-1426-100	100 mg	powder		

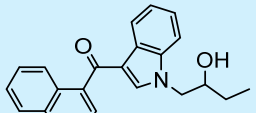
JWH-018 N-(5-hydroxypentyl) metabolite				
	Molecular Formula	C ₂₄ H ₂₃ NO ₂	CAS Number	335161-21-2
	Molecular Weight	357.45	DEA Number	
	JWH-1398-0.1LM	0.1 mg/1 ml	calibrated solution in methanol	
	JWH-1398-1LM	1.0 mg/1 ml	calibrated solution in methanol	
	JWH-1398-10	10 mg	powder	
	JWH-1398-50	50 mg	powder	
JWH-1398-100	100 mg	powder		

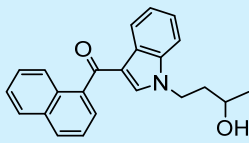
JWH-018 N-pentanoic acid metabolite				
	Molecular Formula	$C_{24}H_{21}NO_3$	CAS Number	1254475-87-0
	Molecular Weight	371.44	DEA Number	
	JWH-1393-0.1LE	0.1 mg/1 ml		calibrated solution in ethanol
	JWH-1393-1LE	1.0 mg/1 ml		calibrated solution in ethanol
	JWH-1393-10	10 mg		powder
	JWH-1393-50	50 mg		powder
JWH-1393-100	100 mg		powder	

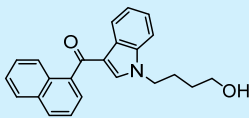
JWH-019				
	Synonym(s): Naphthalen-1-yl-(1-hexylindol-3-yl)methanone			
	Molecular Formula	$C_{25}H_{25}NO$	CAS Number	209414-08-4
	Molecular Weight	355.48	DEA Number	7019 CI
	JWH-1362-0.1LM	0.1 mg/1 ml		calibrated solution in methanol
	JWH-1362-1LM	1.0 mg/1 ml		calibrated solution in methanol
	JWH-1362-10	10 mg		powder
JWH-1362-50	50 mg		powder	
JWH-1362-100	100 mg		powder	

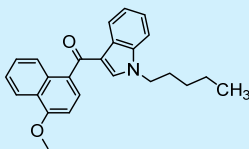
JWH-073				
	Synonym(s): Naphthalen-1-yl-(1-butylindol-3-yl)methanone			
	Molecular Formula	$C_{23}H_{21}NO$	CAS Number	208987-48-8
	Molecular Weight	327.42	DEA Number	7173 CI
	JWH-1293-0.1LM	0.1 mg/1 ml		calibrated solution in methanol
	JWH-1293-1LM	1.0 mg/1 ml		calibrated solution in methanol
	JWH-1293-10	10 mg		powder
JWH-1293-50	50 mg		powder	
JWH-1293-100	100 mg		powder	

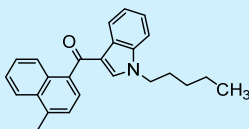
JWH-073 N-butanoic acid metabolite				
	Molecular Formula	$C_{23}H_{19}NO_3$	CAS Number	1307803-52-6
	Molecular Weight	357.4	DEA Number	
	JWH-1370-0.1LE	0.1 mg/1 ml		calibrated solution in ethanol
	JWH-1370-1LE	1.0 mg/1 ml		calibrated solution in ethanol
	JWH-1370-10	10 mg		powder
	JWH-1370-50	50 mg		powder
JWH-1370-100	100 mg		powder	

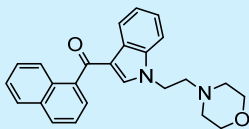
JWH-073 N-(2-hydroxybutyl) metabolite				
	Molecular Formula	$C_{23}H_{21}NO_2$	CAS Number	
	Molecular Weight	343.42	DEA Number	
	JWH-1432-0.1LM	0.1 mg/1 ml		calibrated solution in methanol
	JWH-1432-1LM	1.0 mg/1 ml		calibrated solution in methanol
	JWH-1432-10	10 mg		powder
	JWH-1432-50	50 mg		powder
JWH-1432-100	100 mg		powder	

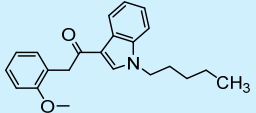
JWH-073 N-(3-hydroxybutyl) metabolite				
	Molecular Formula	$C_{23}H_{21}NO_2$	CAS Number	1320363-48-1
	Molecular Weight	343.42	DEA Number	
	JWH-1443-0.1LM	0.1 mg/1 ml		calibrated solution in methanol
	JWH-1443-1LM	1.0 mg/1 ml		calibrated solution in methanol
	JWH-1443-10	10 mg		powder
JWH-1443-50	50 mg		powder	
JWH-1443-100	100 mg		powder	

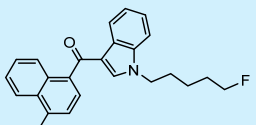
JWH-073 N-(4-hydroxybutyl) metabolite				
	Molecular Formula	$C_{23}H_{21}NO_2$	CAS Number	335161-14-3
	Molecular Weight	343.42	DEA Number	
	JWH-1375-0.1LM	0.1 mg/1 ml		calibrated solution in methanol
	JWH-1375-1LM	1.0 mg/1 ml		calibrated solution in methanol
	JWH-1375-10	10 mg		powder
JWH-1375-50	50 mg		powder	
JWH-1375-100	100 mg		powder	

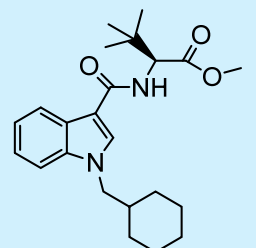
JWH-081				
	Synonym(s): 4-Methoxynaphthalen-1-yl-(1-pentylindol-3-yl)methanone			
	Molecular Formula	$C_{25}H_{25}NO_2$	CAS Number	210179-46-7
	Molecular Weight	371.48	DEA Number	7081 CI
	JWH-1505-0.1LM	0.1 mg/1 ml		calibrated solution in methanol
	JWH-1505-1LM	1.0 mg/1 ml		calibrated solution in methanol
JWH-1505-10	10 mg		powder	
JWH-1505-50	50 mg		powder	
JWH-1505-100	100 mg		powder	

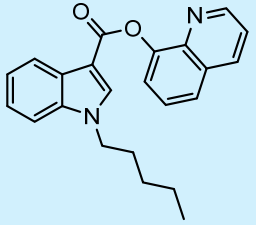
JWH-122				
	Synonym(s): (4-Methyl-1-naphthyl)-(1-pentylindol-3-yl)methanone			
	Molecular Formula	$C_{25}H_{25}NO$	CAS Number	619294-47-2
	Molecular Weight	355.47	DEA Number	7122 CI
	JWH-1491-0.1LM	0.1 mg/1 ml		calibrated solution in methanol
	JWH-1491-1LM	1.0 mg/1 ml		calibrated solution in methanol
JWH-1491-10	10 mg		powder	
JWH-1491-50	50 mg		powder	
JWH-1491-100	100 mg		powder	

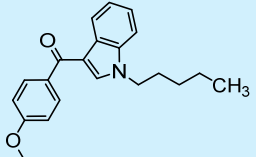
JWH-200				
	Synonym(s): (1-(2-Morpholin-4-ylethyl)indol-3-yl)-naphthalen-1-ylmethanone			
	Molecular Formula	$C_{25}H_{24}N_2O_2$	CAS Number	103610-04-4
	Molecular Weight	384.47	DEA Number	7200 CI
	JWH-1308-0.1LM	0.1 mg/1 ml		calibrated solution in methanol
	JWH-1308-1LM	1.0 mg/1 ml		calibrated solution in methanol
JWH-1308-10	10 mg		powder	
JWH-1308-50	50 mg		powder	
JWH-1308-100	100 mg		powder	

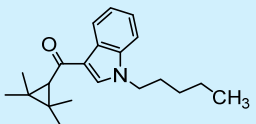
JWH-250		
	Synonym(s): 2-(2-Methoxyphenyl)-1-(1-pentylindol-3-yl)ethanone	
	Molecular Formula	$C_{22}H_{25}NO_2$
	Molecular Weight	335.44
	CAS Number 864445-43-2	
	DEA Number 6250 CI	
	JWH-1356-0.1LM	0.1 mg/1 ml
JWH-1356-1LM	1.0 mg/1 ml	calibrated solution in methanol
JWH-1356-10	10 mg	powder
JWH-1356-50	50 mg	powder
JWH-1356-100	100 mg	powder

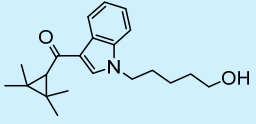
MAM-2201		
	Synonym(s): 5''-Fluoro-JWH-122	
	Molecular Formula	$C_{25}H_{24}FNO$
	Molecular Weight	373.47
	CAS Number 1354631-24-5	
	DEA Number	
	MAM-1739-0.1LM	0.1 mg/1 ml
MAM-1739-1LM	1.0 mg/1 ml	calibrated solution in methanol
MAM-1739-10	10 mg	powder
MAM-1739-50	50 mg	powder
MAM-1739-100	100 mg	powder

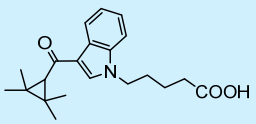
MDMB-CHMICA			
	Molecular Formula	$C_{22}H_{32}N_2O_3$	
	Molecular Weight	384.52	
	CAS Number 1971007-95-0		
	DEA Number 7042 CI		
	DMB-1845-1LA	1.0 mg/1 ml	calibrated solution in acetonitrile
	DMB-1845-10	10 mg	powder
DMB-1845-50	50 mg	powder	
DMB-1845-100	100 mg	powder	

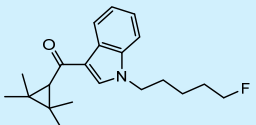
PB-22		
	Synonym(s): QUPIC	
	Molecular Formula	$C_{23}H_{22}N_2O_2$
	Molecular Weight	358.44
	CAS Number 1400742-17-7	
	DEA Number 7222 CI	
	PB-1622-0.1LA	0.1 mg/1 ml
PB-1622-1LA	1.0 mg/1 ml	calibrated solution in acetonitrile
PB-1622-10	10 mg	powder
PB-1622-50	50 mg	powder
PB-1622-100	100 mg	powder

RCS-4		
	Synonym(s): SR-19	
	Molecular Formula	$C_{21}H_{23}NO_2$
	Molecular Weight	321.41
	CAS Number 1345966-78-0	
	DEA Number 7104 CI	
	RCS-1493-0.1LM	0.1 mg/1 ml
RCS-1493-1LM	1.0 mg/1 ml	calibrated solution in methanol
RCS-1493-10	10 mg	powder
RCS-1493-50	50 mg	powder
RCS-1493-100	100 mg	powder

UR-144			
	Synonym(s): (1-Pentylindol-3-yl)-(2,2,3,3-tetramethylcyclopropyl)methanone		
	Molecular Formula	C ₂₁ H ₂₉ NO	CAS Number 1199943-44-6
	Molecular Weight	311.46	DEA Number 7011 CI
	UR-1495-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
	UR-1495-1LM	1.0 mg/1 ml	calibrated solution in methanol
	UR-1495-10	10 mg	powder
	UR-1495-50	50 mg	powder
UR-1495-100	100 mg	powder	

UR-144 N-(5-hydroxypentyl) metabolite			
	Synonym(s): XLR-11 N-(5-hydroxypentyl) metabolite		
	Molecular Formula	C ₂₁ H ₂₉ NO ₂	CAS Number 895155-95-0
	Molecular Weight	327.47	DEA Number
	UR-1577-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
	UR-1577-1LM	1.0 mg/1 ml	calibrated solution in methanol
	UR-1577-10	10 mg	powder
	UR-1577-50	50 mg	powder
UR-1577-100	100 mg	powder	

UR-144 N-pentanoic acid metabolite			
	Synonym(s): XLR-11 N-pentanoic acid metabolite		
	Molecular Formula	C ₂₁ H ₂₇ NO ₃	CAS Number 1451369-33-7
	Molecular Weight	341.45	DEA Number
	UR-1576-0.1LI	0.1 mg/1 ml	calibrated solution in isopropanol
	UR-1576-1LI	1.0 mg/1 ml	calibrated solution in isopropanol
	UR-1576-10	10 mg	powder
	UR-1576-50	50 mg	powder
UR-1576-100	100 mg	powder	

XLR-11			
	Synonym(s): 5-Fluoro-UR-144		
	Molecular Formula	C ₂₁ H ₂₈ FNO	CAS Number 1364933-54-9
	Molecular Weight	329.46	DEA Number 7011 CI
	XLR-1575-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
	XLR-1575-1LM	1.0 mg/1 ml	calibrated solution in methanol
	XLR-1575-10	10 mg	powder
	XLR-1575-50	50 mg	powder
XLR-1575-100	100 mg	powder	

Contact Information

Bill to	Ship to (if different from invoicing address)
Customer/Company	Customer/Company
Department	Department
Address	Address
Contact Person	Contact Person
City, ZIP	City, ZIP
State, Country	State, Country
Phone	Phone
Fax	Fax
E-Mail Address	E-Mail Address
No of pages (incl. this one)	Customer Account #
Date of Request	Purchase Order

Special instructions/Notes

Product List

Article-No.	Product Name	Qty	Unit Price	Total Price

E-Mail USA Lipomed.AMER@lgcgroup.com | All other countries Lipomed.EMEA@lgcgroup.com
In case a permit is needed, please attach original permit along with your order and send it to Lipomed per mail.
Reference Standards orders are subject to Lipomed's standard Terms and Conditions of Sale.

Ordering & other information

LIPOMED is a private Swiss Health Care Company. We are one of the leading companies for Analytical Reference Standards worldwide and specialized in the research, development and manufacturing of ethical pharmaceuticals and products for the treatment of rare diseases.

Since 1993 LIPOMED is dedicated to providing products and services of outstanding quality and expertise. We have our own GMP/GDP and ISO 9001 certified pharmaceutical production facilities in Arlesheim, near Basel. We are also ISO/IEC 17025 accredited for testing of Analytical Reference Standards and ISO 17034 accredited for the production of Reference Material.

Our innovative products are marketed and distributed with offices and partners in more than 50 countries around the world.

LIPOMED's Analytical Reference Standards currently include the following classes of substances, their deuterated analogues and metabolites, such as Glucuronides and Sulfates:

- » Alcohol & Ethanol Biomarkers
- » Amphetamines & Sympathomimetic amines
- » Antidepressants
- » Antipsychotics
- » Barbiturates
- » Benzodiazepines
- » Cannabinoids
- » Cathinones
- » Cocaines
- » Custom Mixtures
- » Hallucinogens
- » Opioids
- » Other CNS Depressants
- » Steroids

For more information about LIPOMED's Analytical Reference Standards, please visit our website www.lipomed-usa.com.

SWITZERLAND (HEADQUARTERS)

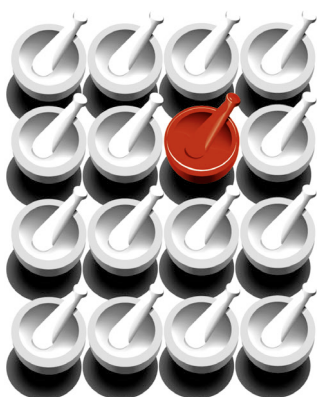
LIPOMED AG
Fabrikmattenweg 4
4144 Arlesheim
Switzerland
Tel +41 61 702 02 00
Fax +41 61 702 02 20
Lipomed.EMEA@lgcgroup.com

GERMANY

LIPOMED GmbH
Hegenheimer Str. 2
79576 Weil am Rhein Germany
Tel +49 7621 1693 473
Fax +49 7621 1693 474
Lipomed.EMEA@lgcgroup.com

USA, CANADA, BERMUDA

LIPOMED Inc
150 Cambridgepark Drive
Cambridge, MA 02140 USA
Tel +1 617 577 7222
Fax +1 617 577 1776
Lipomed.AMER@lgcgroup.com



LIPOMED AG, Switzerland is **GMP/GDP** and **ISO 9001** certified for production and distribution of Pharmaceuticals and **ISO/IEC 17025** (ANAB certificate no. AT-1760) accredited for testing of Analytical Reference Standards and **ISO 17034** (ANAB certificate no. AR-1761) accredited for Reference Material production. All products distributed by LIPOMED affiliates are manufactured by LIPOMED AG and distributed under protocols of LIPOMED AG.

